

ABSTRACT

Fixed volumes of samples are metered into the reaction channel of a microfluidic device using one or more slidable blocks having at least one fixed-length sample metering channel. In another aspect of the present invention, fixed volumes of samples are metered into the reaction 5 channel using one or more slidable blocks having at least one fixed-length sample metering channel. In another aspect of the present invention, a sample injection scheme based on injection time is implemented using relatively sliding blocks of separation channels and sample channels. In a further aspect of the present invention, separation channels are configured in relation to the 10 slidable block in a manner that enables separations to be conducted continuously for high-throughput assays.

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